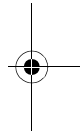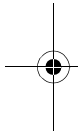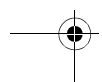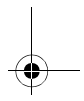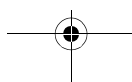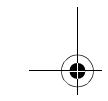Cat. No. 32-2046

OWNER'S MANUAL
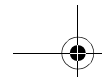
Please read before using this equipment.

50 Watt Speaker/Amplifier

MPS-50

®

RadioShack ®

FEATURES

Your RadioShack MPS-50 50 Watt Speaker/Amplifier is designed for use with sound sources such as an electric guitar, keyboard, or microphone. The MPS-50 is portable, requiring only a flat surface for setup, so you can use it to practice or entertain at parties and get-togethers. Its full range 12-inch speaker provides 50 watts RMS for optimum sound quality.

Your MPS-50 has these features:

Dual $^1/_4$-Inch (6.35 mm) High and Low Input Jacks — let you connect two keyboards, guitars, or high impedance microphones and two low impedance (200–600 ohm) microphones.

Dual Gain, Bass, and Treble Controls — let you balance gain levels between the two channels and adjust the low and high frequency response on each channel.

Dual Reverb Switches — let you add reverberation to either or both channels to compensate for environmental conditions or to suit your personal preference.

Reverb Level Control — lets you control the amount of overall reverb.

Distortion Control — lets you select a clean sound or add the desired amount of distortion to match your musical style.

Master Volume — lets you control the MPS-50's overall output level.

Power On Indicator — lights to show the MPS-50 is on.

Phones Jack — lets you connect a mono headphone for private listening.

Line Out Jack — lets you connect a power amplifier or mixer.

Send and Return Jacks — let you connect a sound effect device (such as an echo reverb or digital sampler processor).

Reverb Remote Jack — lets you connect a foot switch to control reverb effects.

WARNING: To reduce the risk of fire or shock hazard, do not expose this product to rain or moisture.

<table>
<tr><td>⚡</td><td>**CAUTION**
RISK OF ELECTRIC SHOCK.
DO NOT OPEN.</td><td>!</td></tr>
</table>

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER OR BACK. NO USER-SERVICE-ABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED PERSONNEL.

⚡ This symbol is intended to alert you to the presence of uninsulated dangerous voltage within the product's enclosure that might be of sufficient magnitude to constitute a risk of electric shock. Do not open the product's case.

! This symbol is intended to inform you that important operating and maintenance instructions are included in the literature accompanying this product.

Cautions:

• To prevent electrical shock, any AC-powered equipment that you connect to the MPS-50 should be connected to a 3-prong (grounded) AC outlet.

• To avoid damaging the MPS-50's speaker, connect the sound source to the MPS-50 first, then connect the MPS-50 to power.

• Be sure to rotate **MASTER** to **MIN** (minimum) before you connect the MPS-50 to power, or before you connect or disconnect an input source to the MPS-50.

3
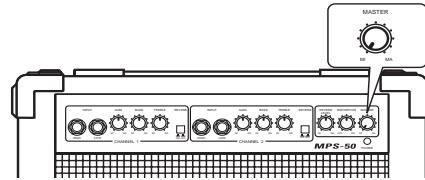
CONNECTIONS

INPUT

Note: You can connect audio equipment with a stereo or monaural plug. When you connect a stereo plug, the MPS-50 converts the stereo output to monaural.

Use a phone cable (available at your local RadioShack store) with a $^1/_4$-inch (6.35 mm) plug to connect an electric guitar, keyboard, or high impedance microphone to the **HIGH** input jack of Channel 1 and/or Channel 2.

Use a phone cable with a $^1/_4$-inch (6.35 mm) plug to connect a low impedance (200–600 ohms) microphone to the **LOW** jack of Channel 1 and/or Channel 2.

OUTPUT

To play the MPS-50's output signal through your sound system, connect one end of an audio patch cord (available at your local RadioShack store) with a $^1/_4$-inch (6.35 mm) phone plug to the MPS-50's **LINE OUT** jack. Then connect the other end to your amplifier/receiver/mixer's input jack.

SEND AND RETURN

To send the MPS-50's signal to a sound effect device, such as an echo reverb or digital sampler processor, connect a phone cable (available at your local RadioShack store) with a $^1/_4$-inch (6.35 mm) plug to the MPS-50's **SEND** (output) jack, then connect the other end to the sound effect device's input jack.

To receive signal from the connected device, connect a phone cable with a $^1/_4$-inch (6.35 mm) plug to the MPS-50's **RETURN** jack, then connect the other end to the device's output jack.

REVERB REMOTE

You can connect an optional remote footswitch to the MPS-50's **REVERB REMOTE** jack and use the switch to control reverb effects.
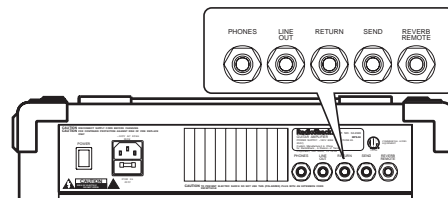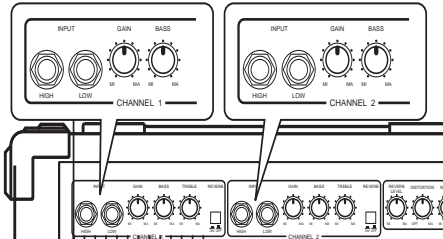

POWER

Note: Before you connect the MPS-50 to AC power, set **POWER** to the off (out) position and **MASTER** to **MIN**.

Connect the female jack end of the supplied power cord to the AC jack on the back of the MPS-50, then connect the other end to a standard AC outlet.
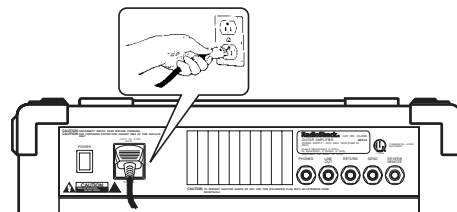
OPERATION

1. Rotate **MASTER** to **MIN**.

2. Press **POWER** up to turn on the MPS-50. The POWER indicator lights.

3. Adjust the sound for each channel where you have connected an input source.

   • Rotate **GAIN** clockwise toward **MAX** to increase the volume, or counterclockwise toward **MIN** to reduce it.

   • Rotate **BASS** clockwise toward **MAX** to increase the low frequency sounds, or counterclockwise toward **MIN** to reduce them.

   • Rotate **TREBLE** clockwise toward **MAX** to increase the high frequency sounds, or counterclockwise toward **MIN** to reduce them.

   • Rotate **DISTORTION** until you hear the amount of distortion you want.

   • Press **REVERB** in on each channel where you want to apply reverb effects. Then rotate **REVERB LEVEL** toward **MAX** to increase the amount of reverb, or toward **MIN** to lower it.

4. To turn the MPS-50 off, press **POWER** down.

USING HEADPHONES

To listen privately, connect low-impedance headphones (available at your local RadioShack store) with a $^1/_4$-inch (6.35 mm) phone plug to the **PHONES** jack on the back of the MPS-50.
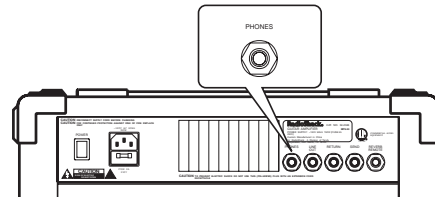
Listening Safely

To protect your hearing, follow these guidelines when you use headphones.

   • Set the volume to the lowest setting before you begin listening. After you begin listening, adjust the volume to a comfortable level.

   • Do not listen at extremely high volume levels. Extended high-volume listening can lead to permanent hearing loss.

   • Once you set the volume, do not increase it. Over time, your ears adapt to the volume level, so a volume level that does not cause discomfort might still damage your hearing.

CARE

To enjoy your MPS-50 for a long time:

- Keep the MPS-50 dry. If it gets wet, wipe it dry immediately.

- Use and store the MPS-50 only in normal temperature environments.

- Handle the MPS-50 gently and carefully. Don't drop it.

- Keep the MPS-50 away from dust and dirt.

- Wipe the MPS-50 with a damp cloth occasionally to keep it looking new.

Modifying or tampering with the MPS-50's internal components can cause a malfunction and invalidate its warranty. If your MPS-50 is not performing as it should, take it to your local RadioShack store for assistance.

REPLACING THE FUSES

If the MPS-50 does not operate, the power fuse under the AC socket on the rear panel or the internal suppy fuses on the printed circuit board might have blown. If this happens, replace the fuses with new ones of the same type, available at your local RadioShack store.

Power fuse	2 Amp 250V, slow blow
Internal supply fuse	3.5 Amp 250V, slow blow

Important Notes:

- Let the MPS-50 cool down and see if it starts again before you assume a fuse needs to be replaced.

- Because the internal supply fuse is located on the printed circuit board, we strongly recommend that you take it to your local RadioShack store rather than attempting to replace it yourself.

Caution: Do not use a fuse with ratings other than those specified here. Doing so might damage your MPS-50.

SPECIFICATIONS

Input Impedance .... 15K Ohms (High Level)
3K ohms (Low Level)

Output Power, 1% T.H.D., 4 Ohms Load, 1 kHz .... 50 Watts

10% T.H.D. 4 Ohm Load, 1 kHz .... 65 Watts

Line Out (High 50 mV Input), 2 kHz .... 500 mV

Send Out (High 50 mV Input), 2 kHz .... 500 mV

T.H.D. at 2 kHz 2w .... 0.2% High and Low Level

Input Sensitivity, 2 kHz at 50 Watts Output .... 50 mV (High Level)
5 mV (Low Level)

S/N Ratio (A-Weighted) .... 70 dB (High Level)
60 dB (Low Level)

Frequency Response 0 dB = 2W (2 kHz) .... 100 Hz −10 dB, 10 kHz +5 dB
High and Low Level

Tone Control, Bass, 100 Hz .... +8 dB (Max.) −11 dB (Min.)

Tone Control, Treble, 10k Hz .... +8 dB (Max.) −11 dB (Min.)

Return In 2 kHz 50 Watts Output .... 500 mV

Delay Time .... 150 mS

Noise Level .... 2 mV

Power Requirement .... AC 120 V/60 Hz

Speaker .... 12-Inch, 4 Ohms

Dimensions (HWD) .... $18^1/_2 \times 16^1/_3 \times 11$ Inches
($470 \times 415 \times 280$ mm)

Weight .... 34 lbs
(15.04 kg)

Specifications are typical; individual units might vary. Specifications are subject to
change and improvement without notice.

Limited Ninety-Day Warranty

This product is warranted by RadioShack against manufacturing defects in material and workmanship under normal use for ninety (90) days from the date of purchase from RadioShack company-owned stores and authorized RadioShack franchisees and dealers. EXCEPT AS PROVIDED HEREIN, RadioShack MAKES NO EXPRESS WARRANTIES AND ANY IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE DURATION OF THE WRITTEN LIMITED WARRANTIES CONTAINED HEREIN. EXCEPT AS PROVIDED HEREIN, RadioShack SHALL HAVE NO LIABILITY OR RESPONSIBILITY TO CUSTOMER OR ANY OTHER PERSON OR ENTITY WITH RESPECT TO ANY LIABILITY, LOSS OR DAMAGE CAUSED DIRECTLY OR INDIRECTLY BY USE OR PERFORMANCE OF THE PRODUCT OR ARISING OUT OF ANY BREACH OF THIS WARRANTY, INCLUDING, BUT NOT LIMITED TO, ANY DAMAGES RESULTING FROM INCONVENIENCE, LOSS OF TIME, DATA, PROPERTY, REVENUE, OR PROFIT OR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, EVEN IF RadioShack HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Some states do not allow the limitations on how long an implied warranty lasts or the exclusion of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

In the event of a product defect during the warranty period, take the product and the RadioShack sales receipt as proof of purchase date to any RadioShack store. RadioShack will, at its option, unless otherwise provided by law: (a) correct the defect by product repair without charge for parts and labor; (b) replace the product with one of the same or similar design; or (c) refund the purchase price. All replaced parts and products, and products on which a refund is made, become the property of RadioShack. New or reconditioned parts and products may be used in the performance of warranty service. Repaired or replaced parts and products are warranted for the remainder of the original warranty period. You will be charged for repair or replacement of the product made after the expiration of the warranty period.

This warranty does not cover: (a) damage or failure caused by or attributable to acts of God, abuse, accident, misuse, improper or abnormal usage, failure to follow instructions, improper installation or maintenance, alteration, lightning or other incidence of excess voltage or current; (b) any repairs other than those provided by a RadioShack Authorized Service Facility; (c) consumables such as fuses or batteries; (d) cosmetic damage; (e) transportation, shipping or insurance costs; or (f) costs of product removal, installation, set-up service adjustment or reinstallation.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

RadioShack Customer Relations, 200 Taylor Street, 6th Floor, Fort Worth, TX 76102

We Service What We Sell   *04/99*

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Fort Worth, Texas 76102